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Ap	plication No.	Applicant(s)
Nation of Allowalility.	645,165	YOO, SUNG-JOO BEN
Notice of Allowability Ex	aminer	Art Unit
Ker	vin S. Wood	2874
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS (OR herewith (or previously mailed), a Notice of Allowance (PTOL-85) or or NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 and 1. This communication is responsive to the Response to Election/	REMAINS) CLOSED in this application is subject to MPEP 1308.	plication. If not included will be mailed in due course. THIS withdrawal from issue at the initiative
·	Restriction received on 27 June	<u>. 2005</u> .
2. ☑ The allowed claim(s) is/are <u>9-16 and 22-25</u> .		
 Acknowledgment is made of a claim for foreign priority under any any all by any some of the content of the conten	n received. In received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of thi noted below. Failure to timely comply will result in ABANDONMENT THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	is communication to file a reply of this application.	complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submitted. INFORMAL PATENT APPLICATION (PTO-152) which gives rea 	. Note the attached EXAMINER' ason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
 CORRECTED DRAWINGS (as "replacement sheets") must be (a) including changes required by the Notice of Draftsperson's 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Am Paper No./Mail Date 20050910. Identifying indicia such as the application number (see 37 CFR 1.84(c) each sheet. Replacement sheet(s) should be labeled as such in the here 	Patent Drawing Review (PTO-sendment / Comment or in the O	office action of any one of the back) of
 DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR . 	f BIOLOGICAL MATERIAL n THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary Paper No./Mail Dat	e
 Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 10/24/03 	7. 🛛 Examiner's Amendn	nent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allowance
-	9. Other	
LLS Debet and Today of Office		John D. Jee John D. Lee Primary Examiner

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ALLOWANCE / EXAMINER'S AMENDMENT

Election/Restrictions

- 1. Applicant's election of claims 9-16 and 22-25 in the reply filed on 27 June 2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. Claims 1-8 and 17-21 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 27 June 2005.
- 3. The applicant cancelled claims 17-21 in the response filed on 27 June 2005.

Drawings

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "46" and "38" have both been used to designate the first free space region(See page 5, lines 22-23 of the specification). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "60" has been used to designate both transmitter encoder and the input pulse (See Fig. 3). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

EXAMINER'S AMENDMENT

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Charles Guenzer on 16 September 2005.

The application has been amended as follows:

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Please cancel claims 1-8.

Allowable Subject Matter

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7. Claims 9-16 and 22-25 are allowed.

8. The following is an examiner's statement of reasons for allowance:

Referring to claims 9-16, the primary reason for the allowance of these claims is the inclusion of a plurality of separately controlled first phase modulators disposed on respective ones of the first waveguides to phase modulate the first wavelength components according to a first code and a plurality of separately controlled second phase modulators disposed on respective ones of the second waveguides to phase modulate the second wavelength components according to a second code.

Referring to claims 22-25, the primary reason for the allowance of these claims is the inclusion of the step of electrically phase modulating the first wavelength components according to a selected first one of a plurality of CDMA codes and the step of electrically phase modulating the second wavelength components according to a selected second one of the plurality of CDMA codes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

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- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - U.S. Patent Application Publication No. 2005/0084266 to Pohjola et al.
 - U.S. Patent Application Publication No. 2005/0053377 to You
 - U.S. Patent Application Publication No. 2004/0047543 to Hiironen et al.
 - U.S. Patent Application Publication No. 2003/0147655 to Shattil
 - U.S. Patent Application Publication No. 2003/0147646 to Zitelli
 - U.S. Patent Application Publication No. 2003,0147116 to Shapantzer et al.
 - U.S. Patent Application Publication No. 2003/0058504 to Cho et al.
 - U.S. Patent No. 6,628,864 to Richardson et al.
 - U.S. Patent No. 6,025,944 to Mendez et al.

Each of these references discloses an optical code division multiple-access device similar to that of the claimed invention.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin S. Wood whose telephone number is (571) 272-2364. The examiner can normally be reached on Monday-Thursday (7am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney B. Bovernick can be reached on (571) 272-2344. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin S. Wood

/ John 19.1.ee Primary Examiner